

CAPSTONE PROJECT-1

Global Terrorism Analysis

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TERRORISM

WHAT IS TERRORISM??



- Is an unlawful act of violence.
- Intimidates Governments or societies.
- Goal is to achieve political ,religious or ideological objectives.

Prevent

To stop people becoming terrorists or supporting terrorism

Pursue

To stop terrorist attacks

Protect

To strengthen our protection against a terrorist attack

Prepare

To mitigate the impact of a terrorist attack

CONTENT:

- ❑ **Problem statement**
- ❑ **Introduction**
- ❑ **Data cleaning and processing**
- ❑ **Data exploration**
- ❑ **Basic observation**
- ❑ **Conclusions**
- ❑ **Challenges and future**

PROBLEM STATEMENT

- ❑ The Global Terrorism Database includes systematic data on domestic as well as international terrorist incidents that have occurred during this time period and now includes more than 180,000 attacks.
- ❑ It is important to analyze and aggregate the available data to better understand its various properties.
- ❑ My main objective of these project is to help the security system to strengthen their resources by using this analyzed data.



INTRODUCTION

- ❑ Terrorism has become more concentrated in past few years,so we need to improve our security to deal with it .
- ❑ We are analysing the parameters of successful terrorist attack and countries which are affected by the major terrorist attack.
- ❑ For analysing the data we are going to perform data cleaning over dataset.
- ❑ After cleaning we are going to compare the attack on country region based on various parameters.

DATA CLEANING

- ❑ Global terrorism dataset contains 135 column hence it contains huge data.
- ❑ Understand the structure of dataset before analysing the data.
- ❑ Correction of column name as per our requirement
- ❑ Checking the important factor for analysis.
- ❑ After successful cleaning the dataset we are getting almost 17-20 column for the analysis



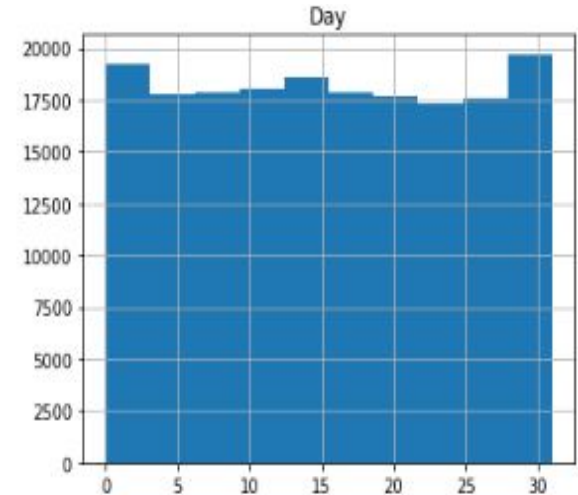
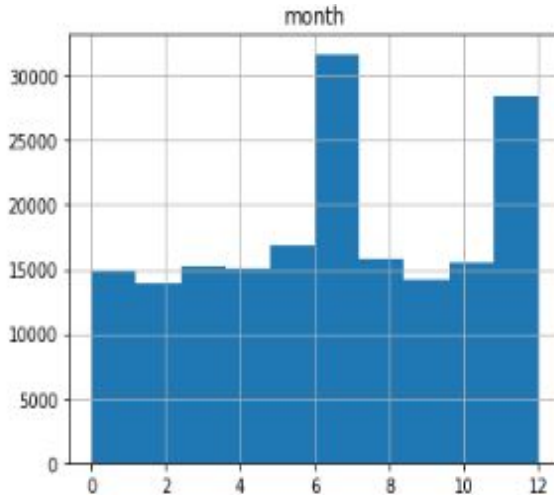
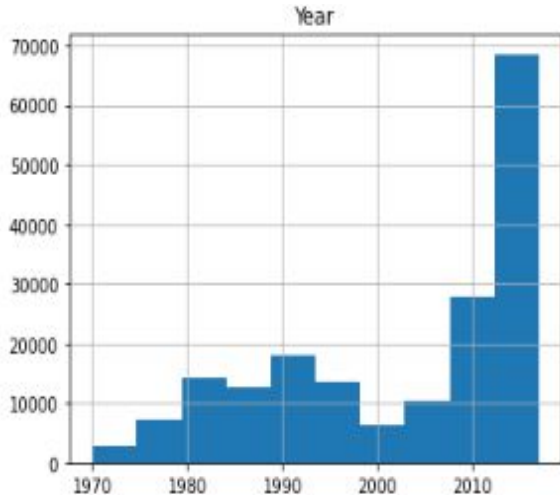
DATA PROCESSING

- ❑ Now we are going to process our data as per our requirement.
- ❑ After getting the cleaned dataset we are renaming the column as we can easily read it.
- ❑ We perform matplotlib and seaborn libraries of python for the data analysis.
- ❑ Using this we have plotted bar graph and scatterplot

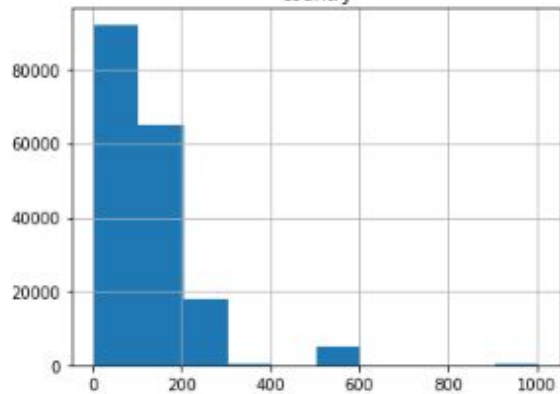


DATA EXPLORATION

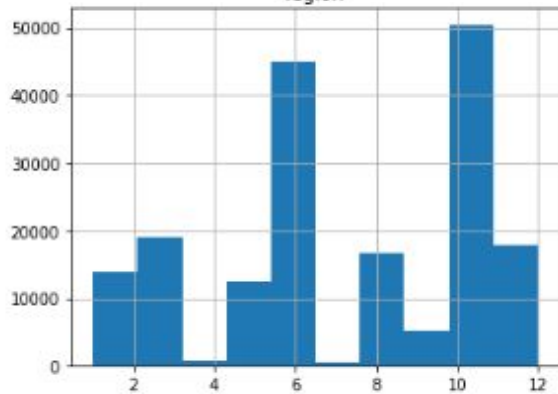
- For proper exploratory data analysis(EDA) we have taken 5 rows and 18 column .
- Here we have used several column such as year, month, day, country ,region, latitude, longitude, killed, wounded.
- By using hist function we have plotted the below histograms.



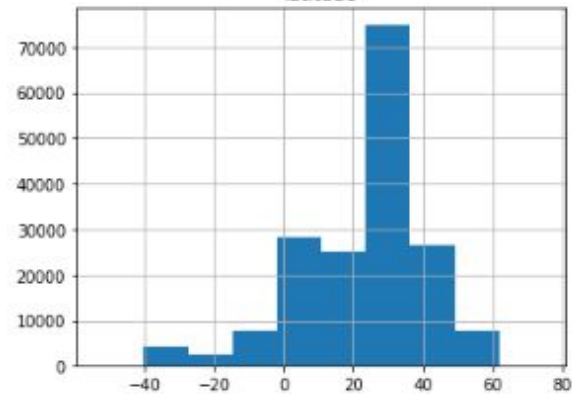
country



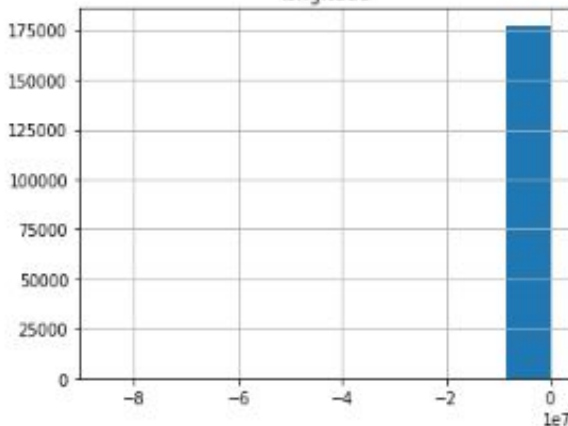
region



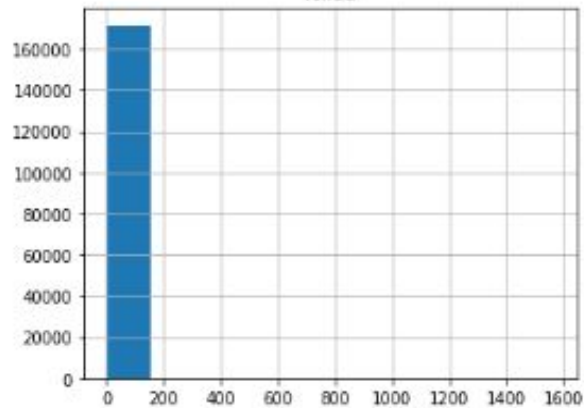
latitude



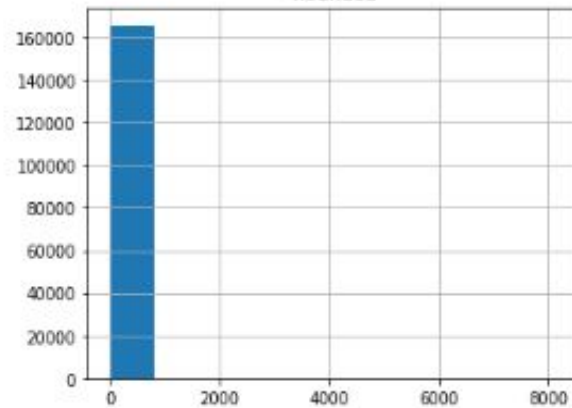
longitude



Killed

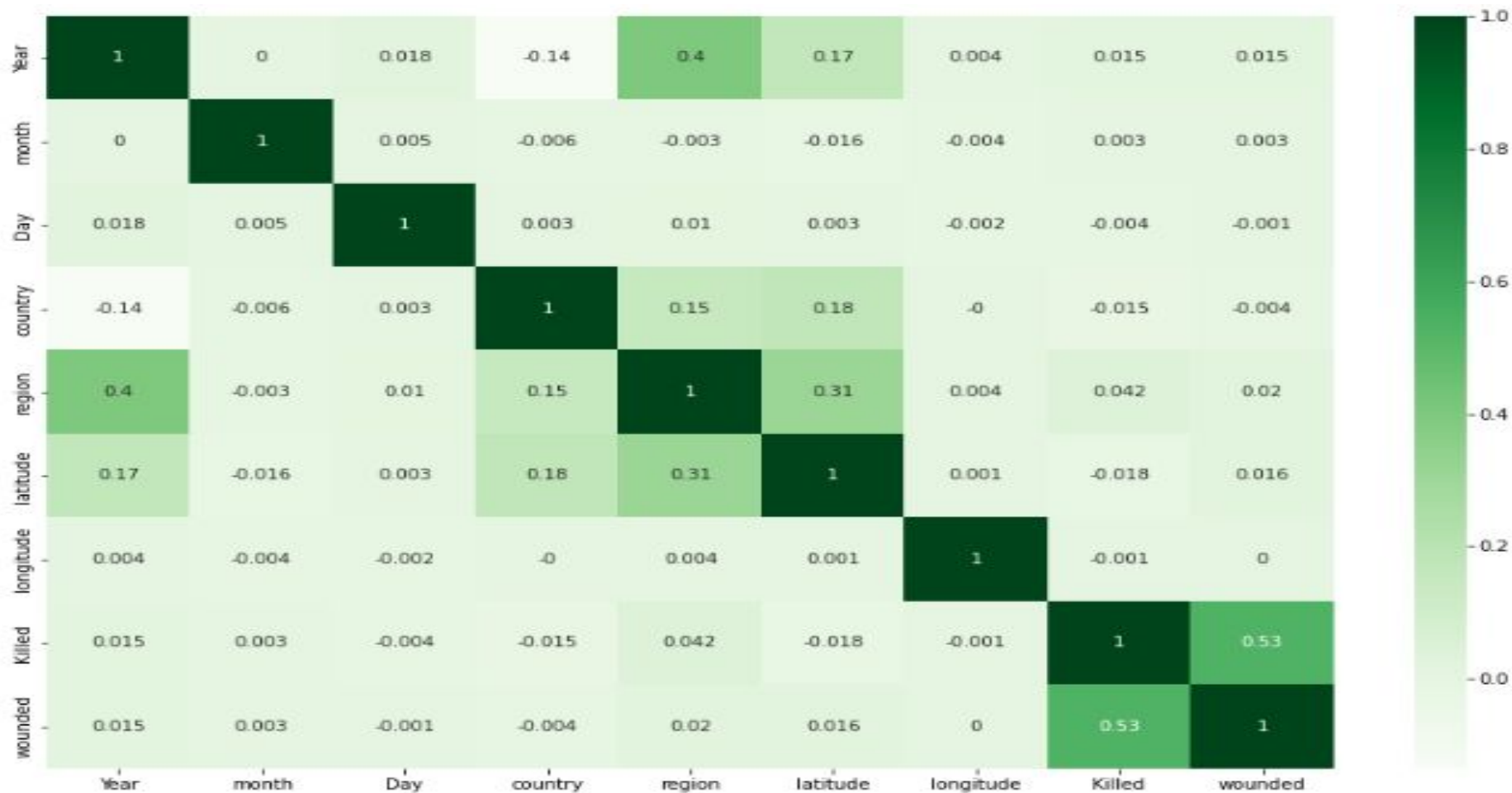


wounded

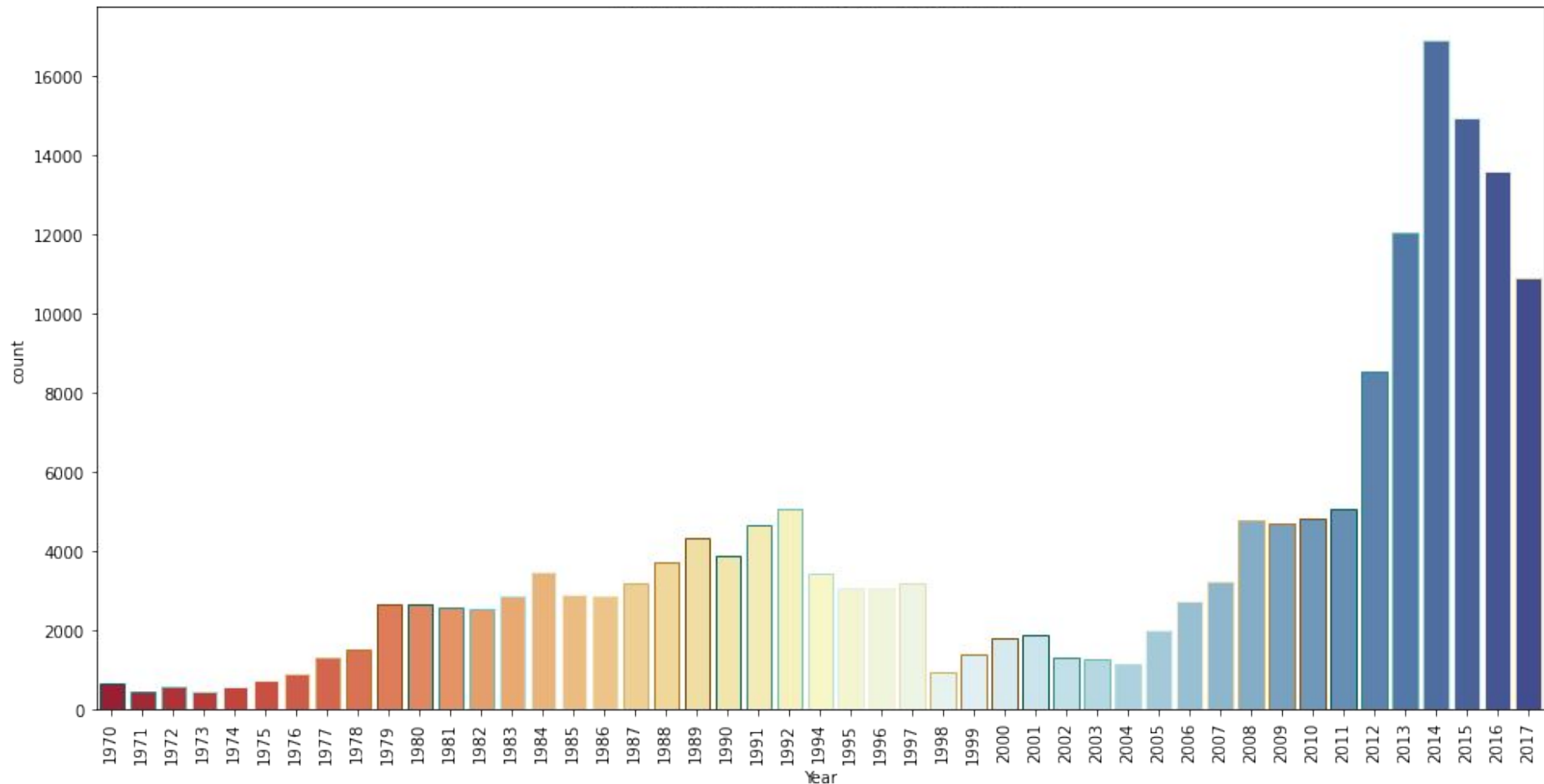


Above histogram shows the distribution of data such as year, month, day ,country ,region ,latitude, killed and wounded.

- The below heatmap represents one parameter is how much related to other



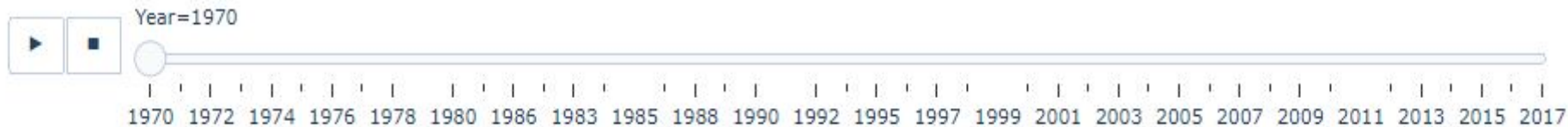
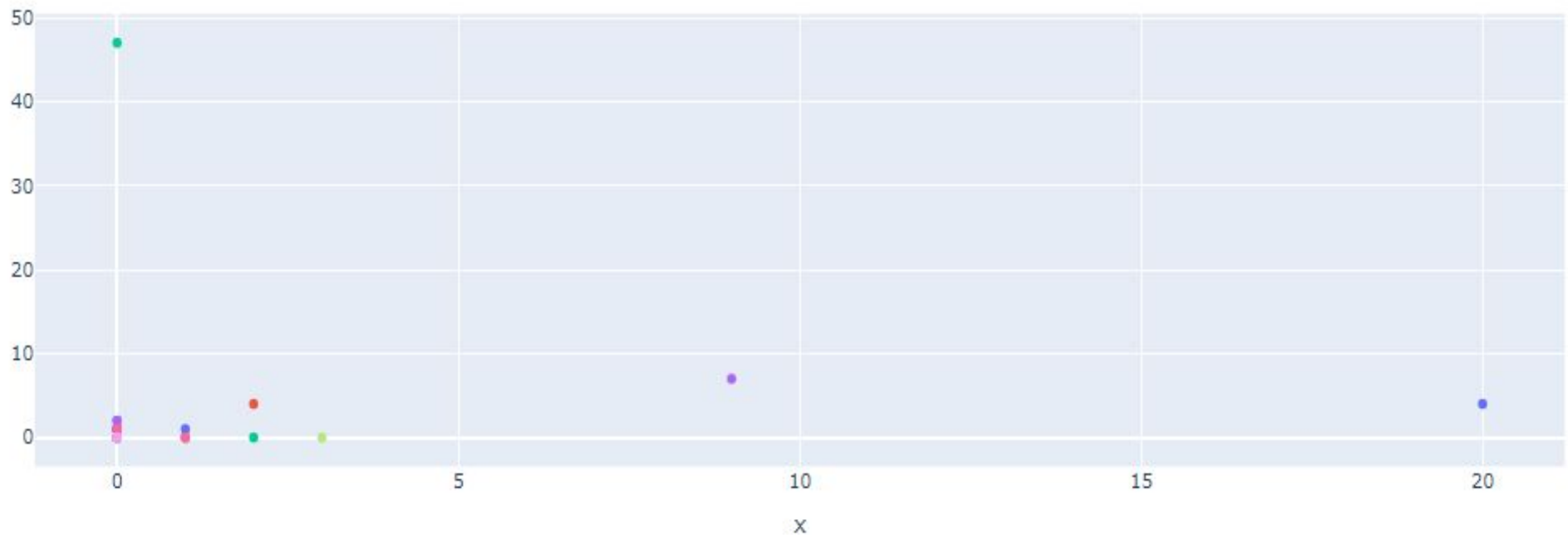
Number of Terrorist Activities in each Year



So here we can say since 2012 has large number of terrorist attack.

Scatterplot

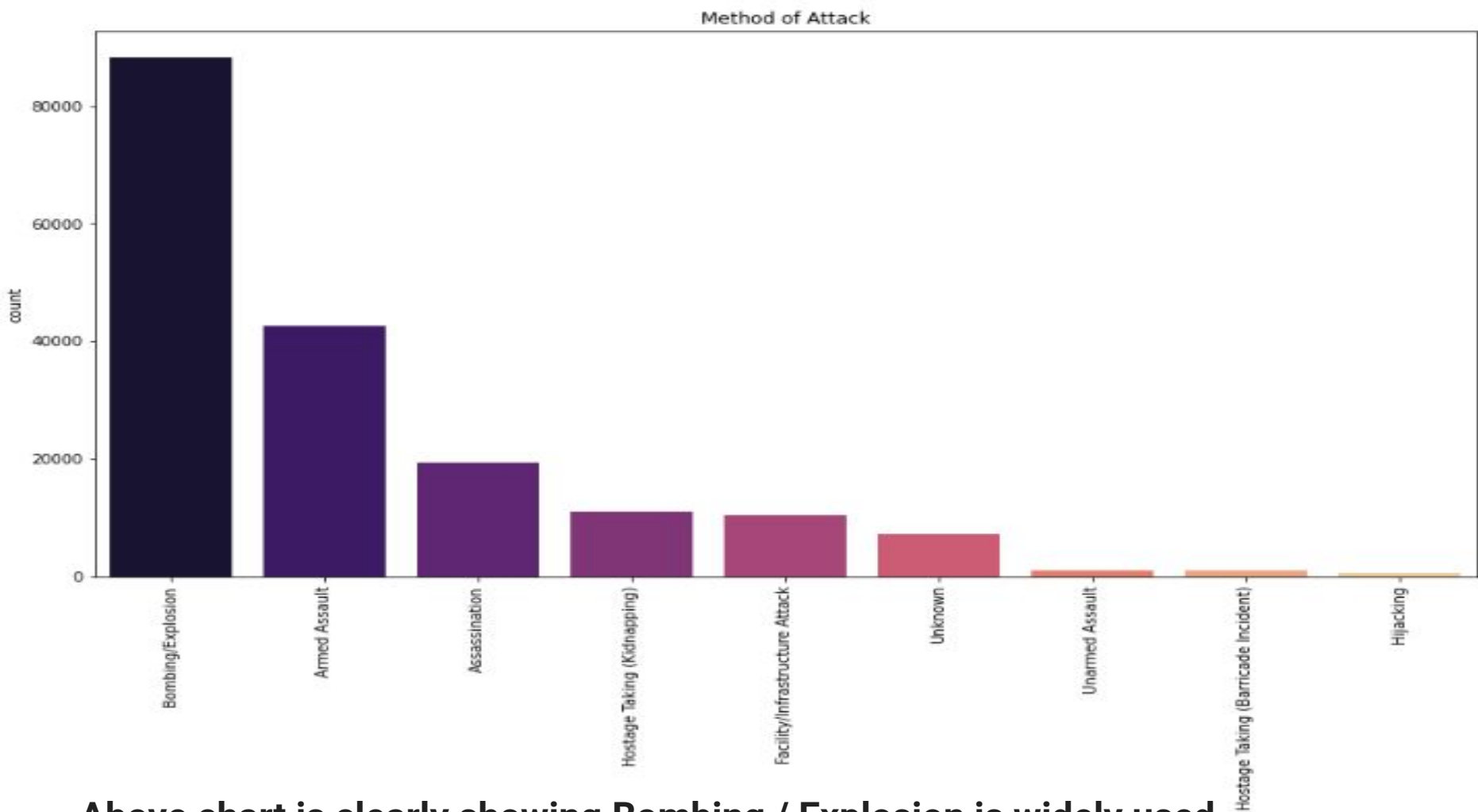
Number of Casualties vs Killed people in each country for each year



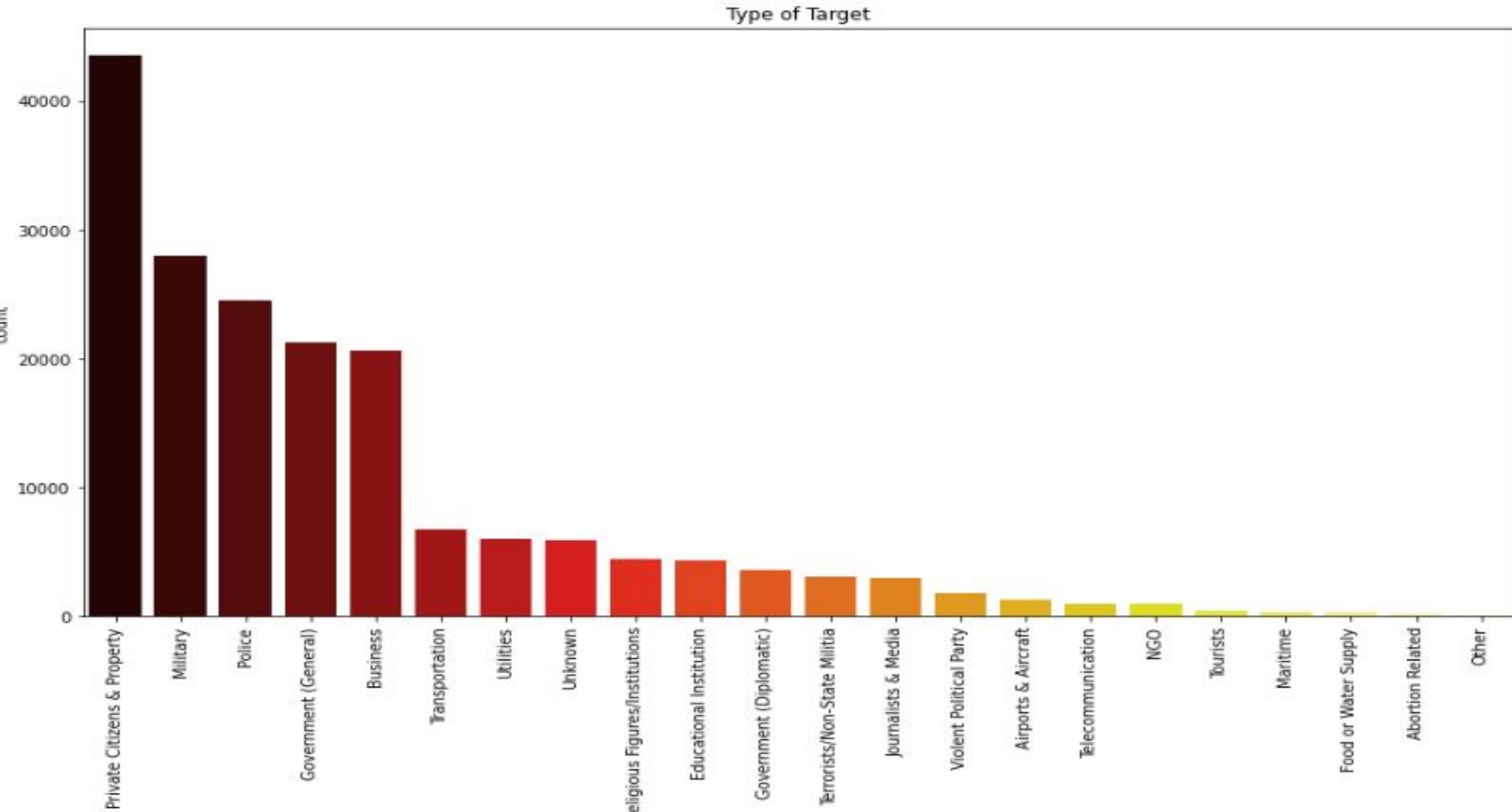
★ Attack type shown in above scatter plot

AttackType

- Assassination
- Hostage Taking (Kidnapping)
- Bombing/Explosion
- Facility/Infrastructure Attack
- Armed Assault
- Hijacking
- Unknown
- Unarmed Assault
- Hostage Taking (Barricade Incident)

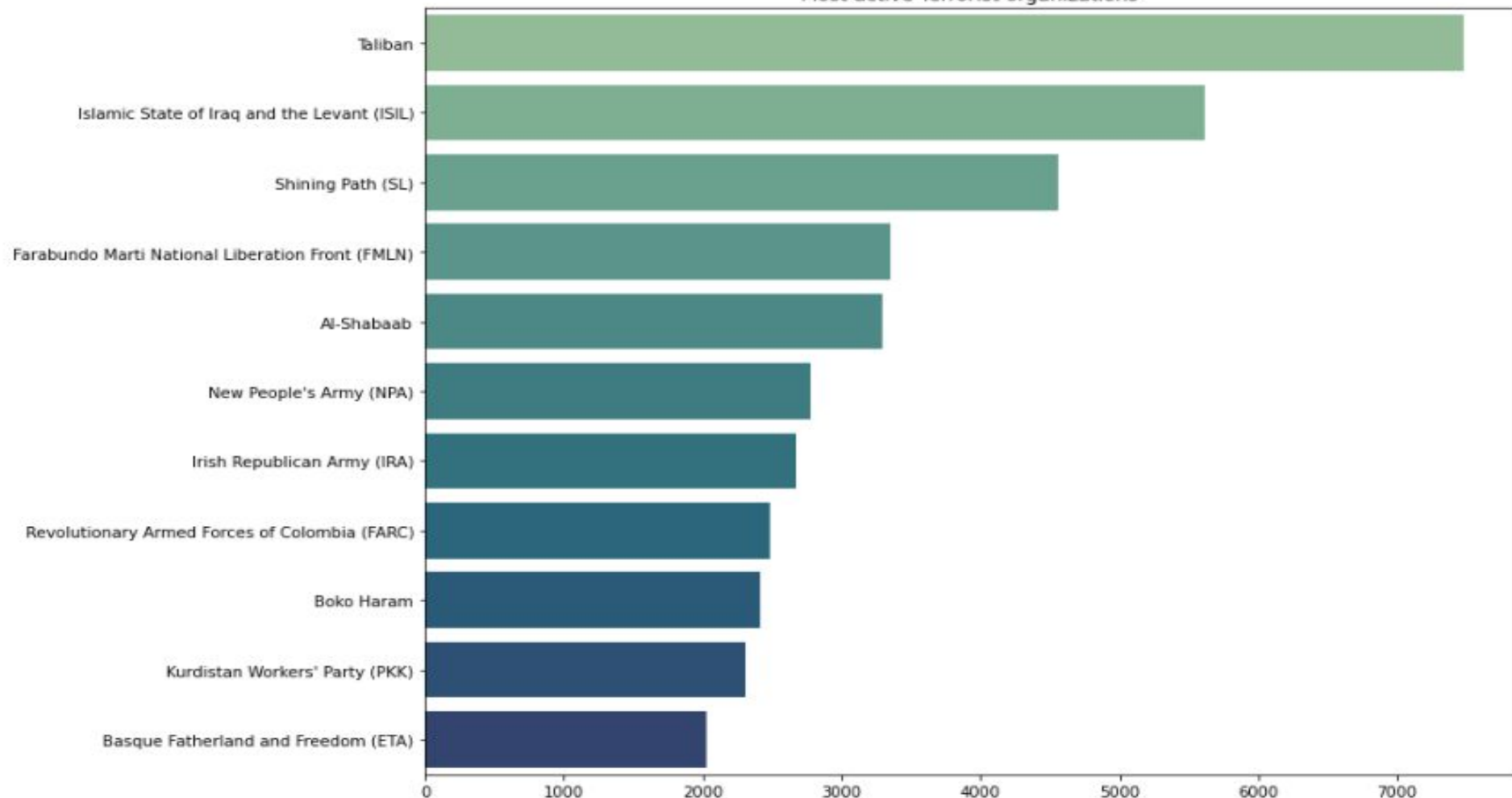


Above chart is clearly showing Bombing / Explosion is widely used.



This graph shows that Private citizens & property are mostly targeted

Most active Terrorist organizations



Here we can conclude taliban is most active terrorist organisation .

CONCLUSION

- ❏ Since 2012 there has large number of terrorist activities.
- ❏ The number of attacks from 1970 has increased by 94.0 % till 2017.
- ❏ Mostly bombing/explosion are used for attacks.
- ❏ Most targeted area are private citizens and property.
- ❏ Taliban is the most active terror organization.

CHALLENGES

- ❑ **As the original data set contains to many column and rows.it was a task to get sorted dataset.**
- ❑ **There was a null values in dataset i.e there was no of it here.**
- ❑ **Data processing help us to manage the dataset.**

FUTURE SCOPE

- ❑ This analysis will be useful for the security system.**
- ❑ It will help them to strengthened their resources .**
- ❑ Red alert area will be protected by more security system**

THANK YOU